FAVO	RAB	L/Z
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PATENT COOPERATION TREATY

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	M	Respons	

From the	I folli dic
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INTERNATIONAL SEARCHING AUTHORITY To:

MARK T. STARR
UNISYS CORPORATION
UNISYS WAY. MS/E8-114

BLUE BELL, PA 19424-0001		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
		(PCT Rule 43bis.1)			
		Date of mailing (day/month/year)		APR 2005	
Applicant's or agent's file reference		FOR FURTHER		aph 2 below	
	N333 B				
International application No.	ternational filing date	(day/month/year)	Priority d	ate (day/month/year)	
	7 October 2004 (07.10		08 Octob	er 2003 (08.10.2003)	_
International Patent Classification (IPC) or t	both national classifica	tion and IPC			ł
IPC(7): G06F 12/00 and US Cl.: 711/203					
Applicant UNISYS CORPORATION					
UNISTS CORFORATION					\neg
This opinion contains indications relating	ng to the following iter	ns:			
Box No. I Basis of the op	pinion				
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention					
Box No. V Reasoned state applicability;	ement under Rule 43 <i>bi</i> citations and explanation	s.1(a)(i) with regard ons supporting such	to novelty statement	, inventive step or industrial	
Box No. VI Certain docum	nents cited				
Box No. VII Certain defec	ts in the international a	application			
Box No. VIII Certain obser	vations on the internat	ional application			
2. FURTHER ACTION					
If a demand for international prelimir International Preliminary Examining Authority other than this one to be the that written opinions of this Internation	Authority ("IPEA") of the iPEA and the choser nal Searching Authority	except that this does IPEA has notified to y will not be so cons	he Internat	ional Bureau under Rule 66.1 <i>bis(t</i>	5)
If this opinion is, as provided above, IPEA a written reply together, when mailing of Form PCT/ISA/220 or before	ore the expiration of 2	menumenis, before	HIC CAPITA	HOIL OF STREET	of July 14,0
For further options, see Form PCT/IS	SA/220.			C	eyg. 8,05
3. For further details, see notes to Form	PCT/ISA/220.		1.4.		
Name and mailing address of the ISA/ US		Authorized offit	*//		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents Le H Luu					
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone 70. 703-305-3900					
Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (January	2004)				
I'VIIII FC 1/15/1/25/ (COVC) SHOCK (Validar)					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/33252

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which
it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language,
which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

Form PCT/ISA/237(Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/33252

Box No. V Reasoned statement under Rul applicability; citations and expl	le 43 <i>bis</i> .1(a)(i) anations supp) with regard to novelty, in orting such statement	ventive step or industrial
1. Statement			
Novelty (N)	Claims	1-15	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1-15	YES
inventive step (10)		NONE	NO
Volument and lookility (IA)	Claims	1-15	YES
Industrial applicability (IA)		NONE	NO

2. Citations and explanations:

Claims 1-15 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a virtualization system for a host computer having at least one host processor and system resources including physical I/O hardware and memory divided into most privileged system memory and less privileged user memory, the system comprising: virtualization software that operates in said less privileged user memory and divides said host computer into a plurality of virtual partitions including at least one user guest partition that provides a virtualization environment for at least one guest operating system and at least one input/output (I/O) partition that maps said physical I/O hardware to endpoints of an I/O channel server in said at least one I/O partition, said I/O channel server sharing the physical I/O hardware with at least one guest partition via a memory channel comprising memory shared between said at least one I/O partition and said at least one guest partition; a resource database for use in managing use of said at least one host processor and said system resources; at least one monitor that operates in said most privileged system memory and maintains guest applications in said at least one guest partition within memory space specified in said resource database; and a context switch between said at least one monitor and said respective guest and I/O partitions for controlling multitask processing of software in said partitions on said at least one host processor.

Form PCT/ISA/237 (Box No. V) (January 2004)